QUESTION

I would like to create a cross gable roof of my structure where the roof ridges meet. How can I accomplish this task in Home Designer?
Creating a cross gable roof is easy to accomplish using the ROOF panel of the Wall Specification dialog in conjunction with the Build Roof tool.

To create a cross gable

1. First, launch your Home Designer program and select New> Plan.

2. Select Build> Wall> Straight Exterior Wall and create a basic structure, similar to the image below.

3. Using the Select Objects tool, select the topmost wall, and click on the Open Object edit button to display its Wall Specification dialog.

4. Select the ROOF panel, and place a check mark in Full Gable Wall, then click OK.
5. Repeat this process for the left, right and bottom walls, indicated in the image below with solid blue wall hatching until all four walls have been specified as **Full Gable Wall**.
Now that you have defined your Full Gable Walls, to create a gable end over the selected walls, build the roof to see the results to this point.

To build a roof

1. Select **Build > Roof > Build Roof** to display the **Build Roof** dialog.

2. Specify the **Pitch** for the wider section of the structure.

   ![Build Roof Dialog](image)

   For the purposes of our example, specify a pitch of 6/12.

3. Click **OK** to build the Roof.

4. Take a 3D **Camera** view to see your progress.

Now you can see that your gable ends have been created where you want them, however, it is clear that the default pitch of 6/12 is not going to allow for the thinner portion of the structure to meet up with the wider portion’s ridge height.
As you have already specified a gable end for this thinner part of your cross gable, you will need to increase the pitch from the default for its side walls to allow it to meet at the center.

To adjust the pitch on a wall-by-wall basis

1. Return to your 2D floor plan view.

2. Using the Select Objects tool, select one of the four walls indicated with orange wall hatching in the image below.

3. Once you have selected one of these walls, click on the Open Object edit button to display its Wall Specification dialog.

4. On the Roof section, select the entire value of the Pitch field, including the (D) which stands for default, and replace it with a higher value.
For the purposes of this example, increase the **Pitch** to **10 1/2"**.

5. Repeat this process for each one of the remaining orange hatched walls indicated in the image.

If you have Auto Rebuild Roofs* checked in the Build Roof dialog, you will notice these changes take place as you go wall by wall through the plan.

If you do not have Auto Rebuild Roofs* checked, then you will need to return to the Build Roof dialog to rebuild your roof after changing all of the indicated walls in your plan (*Auto Rebuild Roofs not available in Home Designer Essentials.)

6. Finally, take a 3D **Camera** view to see the results.
With a basic understanding of these principles, you can apply them to your own designs. Keep in mind that you may need to adjust the Pitch of the cross gables more than once to get their ridges to align perfectly with the main roof ridge.